RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/518,710
Source: PCT
Date Processed by STIC: 4-4-06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/518,710 CRF Edit Date: 4-4-06
Edited by: TCE

___ Realigned nucleic acid/amino acid numbers/~~text in cases where the sequence text "wrapped" to the next line~~

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

PCT

RAW SEQUENCE LISTING DATE: 04/04/2006
PATENT APPLICATION: **US/10/518,710** TIME: 09:52:46

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

```
      3 <110> APPLICANT: Tomizawa, Kazuhito
      4       Matsui, Hideki
      6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
      8 <130> FILE REFERENCE: JP-13650
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
     10 <160> NUMBER OF SEQ ID NOS: 6
     13 <210> SEQ ID NO: 1
     14 <211> LENGTH: 16
     15 <212> TYPE: PRT
     16 <213> ORGANISM: human
     18 <400> SEQUENCE: 1
     19 Phe Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
     20   1               5                  10                  15
     23 <210> SEQ ID NO: 2
     24 <211> LENGTH: 17
     25 <212> TYPE: PRT
     26 <213> ORGANISM: human
     28 <400> SEQUENCE: 2
     29 Arg Glu Glu Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr
     30   1               5                  10                  15
     32 Gly
     35 <210> SEQ ID NO: 3
     36 <211> LENGTH: 521
     37 <212> TYPE: PRT
     38 <213> ORGANISM: human
     40 <400> SEQUENCE: 3
     41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
     42   1               5                  10                  15
     44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
     45             20                  25                  30
     47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
     48          35                  40                  45
     50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
     51      50                  55                  60
     53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
     54  65                  70                  75                  80
     56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
     57                  85                  90                  95
     59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
     60             100                 105                 110
     62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
     63         115                 120                 125
```

RAW SEQUENCE LISTING DATE: 04/04/2006
PATENT APPLICATION: **US/10/518,710** TIME: 09:52:47

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

```
65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu
66     130                 135                 140
68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe
69 145                 150                 155                 160
71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp
72                 165                 170                 175
74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn
75             180                 185                 190
77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr
78         195                 200                 205
80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr
81     210                 215                 220
83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84 225                 230                 235                 240
86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87                 245                 250                 255
89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90             260                 265                 270
92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93         275                 280                 285
95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96     290                 295                 300
98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99 305                 310                 315                 320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102                 325                 330                 335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105             340                 345                 350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108         355                 360                 365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111     370                 375                 380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385                 390                 395                 400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117                 405                 410                 415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120             420                 425                 430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123         435                 440                 445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126     450                 455                 460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465                 470                 475                 480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132                 485                 490                 495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135             500                 505                 510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln
```

RAW SEQUENCE LISTING DATE: 04/04/2006
PATENT APPLICATION: **US/10/518,710** TIME: 09:52:47

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

```
138         515                 520
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 11
143 <212> TYPE: PRT
144 <213> ORGANISM: HIV virus
146 <400> SEQUENCE: 4
147 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
148   1               5                  10
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 26
153 <212> TYPE: PRT
154 <213> ORGANISM: human
156 <400> SEQUENCE: 5
157 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Phe Asp Gly Ala Thr Ala
158   1               5                  10                  15
160 Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
161              20                  25
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 27
166 <212> TYPE: PRT
167 <213> ORGANISM: human
169 <400> SEQUENCE: 6
170 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Glu Glu Ser Glu Ser
171   1               5                  10                  15
173 Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly
174              20                  25
```

VERIFICATION SUMMARY DATE: 04/04/2006
PATENT APPLICATION: **US/10/518,710** TIME: 09:52:48

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)

PCT

RAW SEQUENCE LISTING DATE: 03/31/2006
PATENT APPLICATION: **US/10/518,710** TIME: 16:06:06

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\03312006\J518710.raw**

3 <110> APPLICANT: Tomizawa, Kazuhito
4 Matsui, Hideki
6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
8 <130> FILE REFERENCE: JP-13650
C--> 10 **<140> CURRENT APPLICATION NUMBER: US/10/518,710**
C--> 10 **<141> CURRENT FILING DATE: 2004-12-22**
10 <160> NUMBER OF SEQ ID NOS: 6

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed
(PJ.2)

35 <210> SEQ ID NO: 3
36 <211> LENGTH: 521
37 <212> TYPE: PRT
38 <213> ORGANISM: human
40 <400> SEQUENCE: 3

```
41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
42  1               5                  10                  15
44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
45             20                  25                  30
47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
48         35                  40                  45
50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
51     50                  55                  60
53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
54 65                  70                  75                  80
56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
57                 85                  90                  95
59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
60             100                 105                 110
62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
63         115                 120                 125
65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu
66     130                 135                 140
68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe
69 145                 150                 155                 160
71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp
72                 165                 170                 175
74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn
75             180                 185                 190
77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr
78         195                 200                 205
80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr
```

RAW SEQUENCE LISTING DATE: 03/31/2006
PATENT APPLICATION: US/10/518,710 TIME: 16:06:06

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03312006\J518710.raw

```
81     210                 215                 220
83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84 225                 230                 235                 240
86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87                 245                 250                 255
89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90             260                 265                 270
92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93         275                 280                 285
95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96     290                 295                 300
98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99 305                 310                 315                 320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102                 325                 330                 335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105             340                 345                 350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108         355                 360                 365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111     370                 375                 380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385                 390                 395                 400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117                 405                 410                 415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120             420                 425                 430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123         435                 440                 445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126     450                 455                 460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465                 470                 475                 480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132                 485                 490                 495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135             500                 505                 510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln
E--> 138 515                 520
```

S15 S20

VERIFICATION SUMMARY DATE: 03/31/2006
PATENT APPLICATION: **US/10/518,710** TIME: 16:06:07

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\03312006\J518710.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3